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BY: Gemie Conti Date: September 14, 2004
MAIL STOP AMENDMENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of: :
Il-Joo Cho et al. :
: :
Conf. No.: 5358 : Group Art Unit: 2881
: :
Appln. No.: 10/777,941 : Examiner: David A. Vanore
: :
Filing Date: February 12, 2004 : Attorney Docket No.: 10061-17U1
: (P02000-11US/D)
Title: Method of Fabricating Probe for Scanning Probe Microscope

RESPONSE TO ELECTION OF SPECIES REQUIREMENT

This is in response to the Office Action (Election of Species Requirement) dated August 24, 2004 (Paper No. 081604). This response is being timely submitted by September 24, 2004.

REMARKS

Election of Species Requirement

In the Office Action, the Examiner states that the invention includes different patentably distinct species, namely:

Specie I (claims 1-5): a method of fabricating a probe using three selectively etched mask layers and a boron diffused layer to form a cantilever, body and tip;

Specie II (claims 1, 6, and 8): a method of fabricating a probe in which the step of forming the boron diffused layer of claim 1 requires ion implantation of the boron and diffusion of the boron with a heat treatment;

Specie III (claims 1, 7, and 9): a method of fabricating a probe in which the step of forming the boron diffused layer of claim 1 comprises the diffusion of boron by heat treatment using a solid source containing boron; and